

# C GERANIOL

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### GERANIOL

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Acacia farnesiana	Flower	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Aeolanthus myriantha	Flower	--	--		Wealth of India.
Aesculus hippocastanum	Flower Essent. Oil	--	4000		Jim Duke's personal files.
Allium sativum var. sativum	Bulb	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Aloysia citrodora	Plant	5	420	-0.37748772897210603	--
Anethum graveolens	Fruit	24	154	0.33290806848468324	--
Anethum graveolens	Seed	24	154	-1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Aniba rosaeodora	Essential Oil	--	--		--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Artemisia annua</i>	Plant	--	--		Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles. <i>Artemisia</i> .344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus <i>Vetiveria</i> .Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus <i>Melaleuca</i> .Harwood Acad.Pub.Amsterdam,Netherlands.
<i>Artemisia dracunculus</i>	Shoot	--	--		--
<i>Artemisia dracunculus</i>	Shoot Essent. Oil	--	--		--
<i>Asarum canadense</i>	Rhizome	--	--		--
<i>Asimina triloba</i>	Fruit	0	1.305	-0.603926004906536	--
<i>Boswellia serrata</i>	Essential Oil	--	8000	-0.590948793183161	--
<i>Boswellia serrata</i>	Resin, Exudate, Sap	--	1280		Sabinsa: A series of well documented proprietary PR booklets, e.g.Sabinsa Corps. 1998. Bronchial Asthma - Its etiology and control with traditional herbal extracts. Sabinsa Corporation. Piscataway, NJ. 49 pp.
<i>Bursera delpechiana</i>	Wood	250	1200		--
<i>Camellia sinensis</i>	Leaf	2	2546	0.9520713467876748	--
<i>Camellia sinensis</i>	Shoot	800	1200	0.24305714647507012	--
<i>Camellia sinensis</i>	Leaf Essent. Oil	31600	1200	1.4840612491853453	--
<i>Cananga odorata</i>	Flower	--	--		--
<i>Centella asiatica</i>	Shoot	--	--		Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Chenopodium ambrosioides	Plant	--	--	--	--
Cinnamomum camphora	Leaf	--	--	--	--
Cinnamomum verum	Bark	6	24	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Cinnamomum verum	Leaf Essent. Oil	--	--	--	--
Cinnamomum verum	Root Bark	--	--	--	--
Cinnamomum verum	Stem Bark	--	--	--	--
Cistus ladaniferus	Leaf	17	1190	0.32224662169044604	--
Citrullus lanatus	Fruit Juice	--	--	--	--
Citrus aurantium	Leaf	200	350	-0.06791028766181946	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Citrus aurantium	Plant	--	--	--	--
Citrus limon	Essential Oil	--	--	--	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Citrus limon	Leaf Essent. Oil	13000	60200	-0.6318280565838599	Jim Duke's personal files.
Citrus limon	Pericarp	--	--	--	Jim Duke's personal files.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Citrus limon	Petiole	--	80		--
Citrus paradisi	Plant	--	--		--
Citrus paradisi	Pericarp	--	2		--
Citrus reticulata	Fruit	0	0.1	-0.611319076444153	--
Citrus reticulata	Essential Oil	--	--		--
Citrus sinensis	Fruit	0.7	1	-0.6057972802749785	--
Coriandrum sativum	Fruit	34	442	2.099882842620517	--
Coriandrum sativum	Essential Oil	--	--		--
Coriandrum sativum	Seed Essent. Oil	6720	69700	0.1099647159636269	--
Crocus sativus	Silk Stigma Style	--	--		--
Cymbopogon citratus	Plant	10	36	-0.4434745122932419	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Cymbopogon flexuosus	Plant	875	2500	-0.02005931931595359	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Cymbopogon martinii	Plant	750	4750	0.36658198920632673	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Cymbopogon nardus	Plant	600	4794	0.37414297479520686	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Cymbopogon parkeri</i>	Plant	2968	7474	0.8346757333906341	Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Cymbopogon winterianus</i>	Plant	1064	3150	0.09163705870159405	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
<i>Daucus carota</i>	Root	10	8120	1	--
<i>Daucus carota</i>	Seed	10	8120	1	--
<i>Elettaria cardamomum</i>	Plant	49	140	-0.42560309181043426	--
<i>Elettaria cardamomum</i>	Seed Essent. Oil	--	5000	-1.2760191391363693	--
<i>Elettaria cardamomum</i>	Fruit Essent. Oil	--	12000		--
<i>Elsholtzia blanda</i>	Shoot	49	49	-0.4786940303445524	Bestman, H.J., Rauscher, J., Vostrowsky O., Pant, A.K., Dev. V., Perihar, R. and Mathela, C.S. 1992. Constituents of the Essential Oil of <i>Elsholtsia blanda</i> Benth. (Labiatae). <i>J. Ess. Oils Res.</i> 4: 121-124
<i>Elsholtzia densa</i>	Plant	--	--		Hegnauer, R. 1962-1997. <i>Chemotaxonomie der Pflanzen</i> , Bde 1-11. Birkhauser Verlag Basel, Boston, Berlin.
<i>Elsholtzia eriostachya</i>	Shoot	11	11	-0.5025224792751741	Pant, A.K., Dev, V., Parihar, R., Mathela,C.S., Rauscher, J., Vostrowsky, O. and Bestmann, H.J. 1992. The Essential Oil from <i>Elsholtsia eriostachya</i> var. <i>pusilla</i> . <i>J. Ess. Oil Res.</i> 4: 547-549.
<i>Elsholtzia nipponica</i>	Plant	--	--		Chemical Constituents of Oriental Herbs (3 diff. books)

Plant	Part	Low PPM	High PPM	StdDev	Reference
Elsholtzia polystachya	Leaf	0.2	0.2	-0.2303827720563701	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
Elsholtzia polystachya	Leaf	--	0.2	-0.2303827720563701	Mathela,C.S., Melkani,A.B., Bisht,J.C., Pant,A.K., Bestmann,H.J., Erler,J., Kobold,U., Rauscher,J. and Vostrowsky,O. 1992. Chemical Varieties of Essential Oils from Elsholtzia polystachya from Two Different Locations in India. <i>Planta Medica</i> 58: 376-379.
Eucalyptus angulosa	Leaf	--	1.5	-0.22977895779189628	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus <i>Sympyomyrtus</i> ,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus behriana	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus <i>Sympyomyrtus</i> , Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus ceratocorys	Leaf	--	11	-0.2253664689361266	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus <i>Sympyomyrtus</i> ,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus citriodora	Leaf	250	1000	0.23399684457505263	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
Eucalyptus cuprea	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus <i>Sympyomyrtus</i> , Section Adnataria. Flavour and Fragrance J. 10(6):359-364

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus desquamata	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus dolichorhyncha	Leaf	--	6	-0.22768883149179484	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus erythrandra	Leaf	--	7	-0.2272243589806612	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus fasiculosa	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus forrestiana	Leaf	--	17	-0.2225796338693247	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus globulus	Essential Oil	--	--	--	--
Eucalyptus incrassata	Leaf	--	14	-0.22397305140272566	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus intertexta	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus lansdowneana	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus largisparsa	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus leucoxylon	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus melanophloia	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus ochrophloia	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus odorata	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364

Plant	Part	Low PPM	High PPM	StdDev	Reference
Eucalyptus populnea	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus porosa	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus sparsa	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Eucalyptus stoatei	Leaf	--	13	-0.2244375239138593	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus tetraptera	Leaf	--	27	-0.2179349087579882	Bignell,C.M.,Dunlop,P.J.,Brophy,J.J.,and Jackson, J.F.1994.Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus.Part I.Subgenus Sympyomyrtus,Section Dumaria,Series Incrassatae.Flavour and Fragrance J.9(3):113-7
Eucalyptus viridis	Leaf	0	0	-0.23047566655859675	Bignell, C.M., Dunlop, P.J., Brophy, J.J., and Jackson, J.F. 1995. Volatile Leaf Oils of Some South-western and Southern Australian Species of the Genus Eucalyptus. Part VI. Subgenus Sympyomyrtus, Section Adnataria. Flavour and Fragrance J. 10(6):359-364
Foeniculum vulgare	Essential Oil	--	800	-0.668591700316715	Jim Duke's personal files.
Glycyrrhiza glabra	Root	--	--	--	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Glycyrrhiza glabra	Rhizome Essent. Oil	--	--	--	
Hedeoma pulegioides	Plant	--	--	--	
Houttuynia cordata	Essential Oil	--	--	--	
Houttuynia cordata	Shoot Essent. Oil	--	--	--	
Humulus lupulus	Fruit	--	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
Humulus lupulus	Essential Oil	--	--	--	
Hyacinthus orientalis	Flower	0.048	0.69	-0.5155613303828618	--
Hypericum perforatum	Plant	4	72	-0.4372882513568854	--
Hyssopus officinalis	Flower	0.5	6	-0.5144293278566698	Flavour and Fragrance Journal, 6: 72.
Hyssopus officinalis	Leaf	0.1	2	-0.22954672153632943	Flavour and Fragrance Journal, 6: 72.
Iris x germanica	Rhizome	--	--	--	
Jasminum officinale	Flower	240	380	-0.43469882977837093	--
Juglans nigra	Essential Oil	13000	13000	-0.5370301076737485	--
Juniperus sabina	Plant	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
Lantana camara	Leaf	--	--		--
Laurus nobilis	Fruit	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Laurus nobilis	Leaf	--	--		--
Laurus nobilis	Leaf Essent. Oil	--	13000	-1.1455624970792637	--
Lavandula angustifolia	Flower	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula latifolia	Plant	3	21	-0.44605212101672376	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lavandula x intermedia	Plant	20	36	-0.4434745122932419	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Levisticum officinale	Root	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Lippia alba	Plant	--	--		Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. l'ORSTROM, Paris. 569 pp.
Litsea glaucescens	Shoot	2	3	-0.5075389948395156	Tucker, et al, EB46(1):21-24.1992
Lonicera japonica	Flower	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Malus domestica	Plant	--	--		--
Mangifera indica	Flower	--	--		--
Matricaria recutita	Plant	--	--		Kameoka, H. and Nakai, K. 1987. Components of essential oil from the root of Glycyrrhiza-glabra. Nippon Gogeikagaku Kaishi 61(9): 1119-1122.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Medicago sativa	Leaf	--	--	--	
Melissa officinalis	Shoot	1	65	-0.4686609992158695	Deutsche Apot. Zitt. 129(4):155-163. W. Schulze et al. Die Melisse.
Mentha longifolia	Shoot	1	115	-0.4373077769387356	Fleisher, Z. and Fleisher, A. 1991. The Essential Oils from Mentha longifolia Growing in Sinai and Israel. J. Ess. Oil Res., 3: 57.
Mentha spicata	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Monarda didyma	Flower	4	4	-0.5148556941565537	Flavour and Fragrance Journal, 6: 80.
Monarda didyma	Leaf	14	25	-0.21886385378025552	--
Monarda fistulosa	Plant	1	29450	4.611044353873137	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Myristica fragrans	Seed	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
Myristica fragrans	Seed Essent. Oil	36000	119000	1.166054423172743	--
Myristica fragrans	Essential Oil	--	--	--	
Myrtus communis	Plant	1	2	-0.44931709206646747	--
Myrtus communis	Leaf	1	2	-0.19564022822357305	--
Nepeta cataria	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Nepeta cataria	Leaf	--	--	--	

Plant	Part	Low PPM	High PPM	StdDev	Reference
Nepeta cataria	Essential Oil	255000	255000	2.072634270981816	--
Nepeta racemosa	Shoot	70	70	-0.4655256769881561	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Nepeta racemosa	Shoot	--	70	-0.4655256769881561	Baser, K.H.C., Ozek, T., Akgul, A. and Tumen, G. 1993. Composition of the Essential Oil of Nepeta racemosa Lam. J. Ess. Oil Res. 5: 215-7.
Ocimum basilicum	Plant	1	1000	-0.27782019166414046	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Ocimum basilicum	Plant	--	3	-0.44914525148490203	Die Nahrung. Pino, J., Rosado, A., Goire, I., Roncal, E., and Garcia, I. 1993. Analysis of the Essential Oil from Cuban Basil. Die Nahrung 37:(5): 501-504.
Ocimum basilicum	Essential Oil	--	100000	0.4011550201900289	--
Ocimum basilicum	Shoot Essent. Oil	1100	3900	--	
Ocimum canum	Shoot	--	--		=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Ocimum gratissimum	Flower	11010	14245	2.521085544167122	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Ocimum gratissimum	Leaf	10335	13455	6.019001970744656	Charles, D.J. and Simon, J.E. 1992. A New Geraniol Chemotype of Ocimum gratissimum L. J. Ess. Oil Res. 4: 231-234.
Origanum majorana	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Origanum majorana	Essential Oil	--	0	-0.677218689998221	--
Origanum onites	Shoot	48	48	-0.47932109479009505	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Frag. J. 8: 331-7.
Origanum syriacum	Shoot	65	65	-0.4686609992158695	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot	--	0	-0.5094201881761437	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum syriacum	Shoot	--	65	-0.4686609992158695	Fleisher, A. & Fleisher, Z. 1991. Chemical Composition of Origanum syriacum L. Essential Oil. J. Ess. Oil Res. 3: 121-123.
Origanum vulgare	Plant	0.5	0.5	-0.44957485293881566	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Plant	2.5	2.5	-0.4492311717756847	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Plant	1.5	1.5	-0.4494030123572502	Sezik, E., Tumen, G., Kirimer, N., Ozek, T., and Baser, K.H.C. 1993. Essential Oil Composition of Four <i>Origanum vulgare</i> Subspecies of Anatolian Origin. J. Ess. Oil Res., 5: 425-431.
Origanum vulgare	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pelargonium graveolens	Plant	2	1400	-0.2090839590379573	--
Pelargonium roseum	Shoot	--	3276	1.5448429354216695	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Petroselinum crispum	Leaf	1.26	1.26	-0.22989043119456826	--
Peumus boldus	Leaf	14	30	-0.21654149122458727	--
Pimenta racemosa	Leaf	0	560	0.02962893967624691	--
Plumeria acutifolia	Flower	--	--	--	--
Polianthes tuberosa	Flower	--	--	--	--
Prunus armeniaca	Essential Oil	--	--	--	--
Prunus dulcis	Flower	--	--	--	--
Pycnanthemum pycnanthemosides	Shoot	1911	2842	1.2726969660561473	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Pycnanthemum virginianum	Shoot	--	--	--	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Ravensara aromatica	Bark	--	22	-1	--
Ribes nigrum	Fruit	--	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Ribes nigrum	Leaf	12	12	-0.22490199642499295	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Rosa centifolia	Essential Oil	--	--	--	--
Rosa damascena	Essential Oil	--	--	--	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Rosa gallica	Flower	100	275	-0.4570830605222784	--
Rosmarinus officinalis	Plant	50	370	-0.386079758050379	J. Ethnopharmacology, 39: 167.
Rosmarinus officinalis	Resin, Exudate, Sap	--	--	--	
Rosmarinus officinalis	Shoot	--	0.5	-0.5091066559533722	Tucker, A. O. and Maciarello, M. J. 1998. The essential oils of some rosemary cultivars. Flavor and Fragrance Journal, 1: 137-142. 1986.
Rubus idaeus	Fruit	--	--	--	
Salvia dorisiana	Shoot	0	0	-0.5094201881761437	Tucker, A.O. & Maciarello, M.J. 1994. The Essential Oil of Salvia dorisiana Standley. J. Ess. Oil Res. 6: 97-8.
Salvia officinalis	Plant	--	--		Stitt, Paul. Why George should eat broccoli.
Salvia sclarea	Plant	22	735	-0.3233579457789868	Flavour and Fragrance Journal, 6: 154.
Santalum album	Wood	--	--	--	
Satureja cuneifolia	Shoot	115	115	-0.4373077769387356	Tumen, G. 1991. The Volatile Constituents of Satureja cuneifolia. J. Ess. Oil Res., 3: 365-366.
Satureja hortensis	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Satureja montana	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Satureja obovata	Leaf	0.01	0.01	-0.2304710218334853	Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja obovata	Leaf	--	--		Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Satureja obovata	Leaf	--	--		Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja obovata	Leaf	--	--		Arrebola, M.L., Navaro, M.C., Jimenez, J. and Ocana, F.A. 1994. Variations in Yield and Composition of the Essential Oil of Satureja obovata. Phytochemistry 35(1): 83.
Satureja obovata	Shoot	1	315	-0.3118948878302	Fitoterapia No.60: 277.
Scutellaria parvula	Plant	1	1	-0.4494889326480329	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Sideritis scardica	Shoot	245	245	-0.35578939901818746	Menkovic, N., et al. 1991. The Essential Oil of Sideritis scardica. Pl. Med. 57. Suppl. 2. pp. A137-A132.
Skimmia arborescens	Leaf	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Solanum tuberosum	Plant	--	--		--
Stachytarpheta cayennensis	Plant	--	--		--
Stevia rebaudiana	Leaf	--	9	-0.2262954139583939	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Stevia rebaudiana	Plant	--	20	-0.4462239615982892	Kinghorn, A. D. (Ed.) 2002. Medicinal and Aromatic Plants - Industrial Profiles. Stevia. The genus Stevia. Taylor & Francis. New York, NY. 211 pp.
Tagetes minuta	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Tamarindus indica	Essential Oil	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Telosma cordata	Flower	4439	4439	0.4306115758361085	K. Furukawa, T. Arai, S. Hashimoto, (1993); Volatile components of Telosma cordata Merrill flowers, Flavour Fragr. J., Vol 8, 221-223.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus capitatus	Plant	40	40	-0.44278714996698004	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus capitatus	Shoot	0	0	-0.5094201881761437	Biondi, D., Cianci, P., Geraci, C. and Ruberto, G. 1993. Antimicrobial Activity and Chemical Composition of Essential Oils from Sicilian Aromatic Plants. Flav. & Fragr. J. 8: 331-7.
Thymus funkii	Shoot	8	8	-0.5044036726118022	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Thymus funkii	Shoot	--	8	-0.5044036726118022	Vila, R., et al. 1995. Composition and study of the variability of the essential oil of Thymus funkii Cousson. Flav. & Fragr. J. 10(6): 379-383.
Thymus longicaulis	Shoot	5500	5500	2.939434262308586	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus longicaulis	Shoot	--	0	-0.5094201881761437	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus longicaulis	Shoot	--	5500	2.939434262308586	Baser, K.H.C., Ozek, T., Kirimer, N. and Tumen, G. 1993. The Occurrence of Three Chemotypes of Thymus longicaulis C. Presl subsp. longicaulis in the same Population. J. Ess. Oil Res. 5: 291-5.
Thymus mastichina	Plant	20	20	-0.4462239615982892	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
Thymus serpyllum	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Thymus vulgaris	Plant	0	10660	1.3821598262581827	--
Thymus vulgaris	Essential Oil	--	--	--	--

Plant	Part	Low PPM	High PPM	StdDev	Reference
Thymus x citriodorus	Plant	6130	6130	0.6037219917666586	Stahl-Biskup, E. and Holthuijzen, J. 1995. Essential oil and glycosidally bound volatiles of lemon-scented thyme, <i>Thymus x citriodorus</i> (Pers.) Schreb. <i>Flav. &amp; Fragr. J.</i> 10: 225-229.
Thymus zygis	Shoot	0	2350	0.96418125884915	De Cunha, A.P. and Salguiero, L.R. 1991. The Chemical Polymorphism of <i>Thymus zygis</i> ssp. <i>sylvestris</i> from Central Portugal. <i>J. Ess. Oil Res.</i> 3: 409-12.
Thymus zygis	Shoot	14	14	-0.5006412859385461	Jimenez, J., Navarro, M.C., Montilla, M.P., Martin, A. and Martinez, A. 1993. <i>Thymus zygis</i> Oil: Its Effects on CCl4-Induced Hepatotoxicity and Free Radical Scavenger Activity. <i>JEO5:</i> 153-8.
Tilia sp.	Flower	--	--	--	--
Trifolium pratense	Flower	--	3	-0.5150688773064958	Buchnauer,G.,Jirovetz,L.,Nikiforov,A.1996.Comparative Investigation of Essential Clover Flower Oils from Austria Using Gas Chromatography-Flame Ionization Detection, Gas Chromatography-Mass Spectrometry, and Gas Chrom.-Olfactometry. <i>J.Agrc.Food Chem.</i> 44:1827-8
Umbellularia californica	Plant	10	40	-0.44278714996698004	--
Vaccinium corymbosum	Fruit	0.01	0.03	-0.6117485494795332	--
Vaccinium myrtillus	Fruit Juice	--	--	--	--
Valeriana officinalis	Root	1	120	-1	Father Nature's Farmacy: The aggregate of all these three-letter citations.
Vitis vinifera	Leaf Essent. Oil	145200	145200	0.2933293044777782	--
Vitis vinifera	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Zanthoxylum alatum	Fruit	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Zea mays	Silk Stigma Style	--	--	--	
Zingiber officinale	Rhizome	2	345	--	
Zingiber officinale	Rhizome Essent. Oil	--	6900	--	